

AMENDMENT

Please enter the following amendments. Deleted subject matter is indicated with strikethrough text and added subject matter is indicated with underlined text.

IN THE CLAIMS

1 -10 (Cancelled).

11. (Currently Amended) A ~~driving delivery~~ system ~~comprising for use with~~ an injector system ~~coupled to a driving system~~, the injector system comprising: a housing defining a lumen and having an output end and a driving system connection end, the lumen comprising a proximal portion and a distal portion and the inner diameter of the proximal portion being substantially larger than the inner diameter of the distal portion; a needle assembly coupled to the output end of the housing for coupling to a needle; and a mixing member extending through the lumen from the driving system connection end to at least ~~the output end~~ a portion of the needle assembly, the mixing member being rotatable within the lumen in both the proximal portion and the distal portion; and

the driving system comprises:

a drive mechanism;

an actuator coupled to the drive mechanism to actuate the drive mechanism; and a

rotatable interfacing member coupled to the drive mechanism for coupling with

the mixing member to rotate the mixing member when the interfacing member is driven by the drive mechanism, wherein the mixing member is rotatable in the needle assembly and wherein mixing occurs in the needle assembly.

12. (Currently Amended) The ~~driving delivery~~ system of claim 11, wherein the drive mechanism comprises a motor.

13. (Currently Amended) The ~~driving delivery~~ system of claim 12, wherein the motor is a high speed, low torque motor.

14. (Currently Amended) The ~~driving~~ delivery system of claim 12, wherein the motor is coupled to an energy source.

15. (Currently Amended) The ~~driving~~ delivery system of claim 14, wherein the energy source is a battery.

16. (Currently Amended) The ~~driving~~ delivery system of claim 11, wherein the actuator comprises a switch.

17. (Currently Amended) The ~~driving~~ delivery system of claim 11, wherein the driving system is capable of coupling to an injector system, the injector system comprising a tubular member and a mixing member extending through the tubular member.

18. (Currently Amended) A coupling system for use with a tube of a syringe ~~comprising a proximal portion and a distal portion and the inner diameter of the proximal portion being substantially larger than the inner diameter of the distal portion, wherein the coupling system~~ comprising: a housing for coupling to the tube of the syringe, said syringe comprising a needle assembly coupled to an output end of the tube; a drive mechanism disposed within the housing; a mixing member for coupling to the drive mechanism, the mixing member extending into the tube of the syringe and being rotatable within the tube of the syringe in both the proximal portion and the distal portion and at least a portion of the needle assembly to mix and deliver an injectable from the tube of the syringe; and an actuator coupled to the drive mechanism to actuate the drive mechanism and thereby cause rotation of the mixing member and mixing occurs in the needle assembly and the tube.

19. (Cancelled)

20. (Previously presented) The coupling system of claim 18, wherein the housing further comprises a mating portion, the mating portion being capable of mating with the tube of the

syringe.

21. (Cancelled)

22. (Previously presented) The coupling system of claim 20, wherein the tube of the syringe comprises an injectable material.

23. (Original) The coupling system of claim 18, wherein the housing comprises finger grips.

24 – 25. (Cancelled)

26. (Currently Amended) The ~~driving~~ delivery system of claim 11, wherein the mixing member comprises a helical element.

27. (Withdrawn) The driving system of claim 26, wherein the helical element is an auger.

28. (Previously Presented) The coupling system of claim 18, wherein the mixing member comprises a helical element.

29. (Cancelled)

30. (Currently Amended) The coupling system of claim 22, wherein the injectable material comprises a shear-sensitive injectable material.

31. (Currently Amended) The ~~driving~~ delivery system of claim 11, wherein the injector system further comprises an injectable material comprising a shear-sensitive injectable material.

32. (Currently Amended) The ~~driving~~ delivery system of claim 31, wherein the shear-sensitive injectable material comprises a cross-linked material, a carrier, and a matrix material.

33. (Withdrawn) The driving system of claim 31, wherein the injectable material further comprises a bioactive molecule.

34. (Withdrawn) The driving system of claim 11, wherein the lumen further comprises a middle portion having an inner diameter substantially larger than the inner diameter of the proximal portion.

35. (Withdrawn) The driving system of claim 11, wherein the mixing member comprises a screw having a proximal end and a distal end, the screw being extendable and rotatable within both the proximal portion and the distal portion of the lumen.

36. (Withdrawn) The driving system of claim 35, wherein an outer diameter of the screw decreases from the proximal end to the distal end.

37. (Withdrawn) The driving system of claim 35, wherein a pitch of the screw decreases from the proximal end to the distal end.

38. (Withdrawn) The driving system of claim 35, wherein a radial thread height of the screw increases from the proximal end to the distal end.